

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO 1004-0135
Expires July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM106690

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No
NMNM126626

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No
BRUSHY DRAW 1 FEDERA; 1H

2. Name of Operator

MEWBOURNE OIL COMPANY

Contact: JACKIE LATHAN

E-Mail: jlathan@mewbourne.com

9. API Well No.

30-015-38673-00-S1

3a. Address

POB 5270
HOBBS, NM 88241

3b. Phone No. (include area code)

Ph: 575-393-5905
Fx: 575-397-625210. Field and Pool, or Exploratory
CORRAL CANYON

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T26S R29E NENE Lot A 330FNL 370FEL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

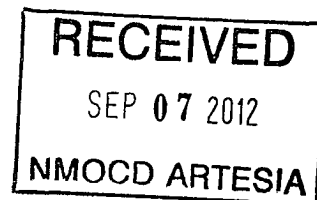
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Mewbourne Oil Company's well the Brushy Draw 1 Fed #1H is originally a horizontal Avalon/Bone Springs Test well (TVD 7834, MD 12191). (SEE ATTACHED Current Schematic)

MOC is requesting to plug back & test this well in the Upper Brushy Canyon & Bell Canyon. First MOC will set a 7" 10K CIBP @ 7164' (KOP & Top of Bone Springs) Spot 170' Class "H" cmt (yd 1.22 cuft/sk) on plug. Perforate & Frac Upper Brushy Canyon @ (6160'-6182') to test well. (SEE ATTACHED Upper Brushy Canyon Procedure & Proposed Upper Brushy Canyon Schematic)

After the test concludes MOC will set a 7" retrievable bridge plug @ 6000'. Perforate & Frac Bell Canyon @ (3448'-3458') to test well. (SEE ATTACHED Bell Canyon Procedure & Proposed Bell Canyon Schematic)



Accepted for record SEE ATTACHED FOR
TES 9/7/12 NMOCD CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct

Electronic Submission #147148 verified by the BLM Well Information System

For MEWBOURNE OIL COMPANY, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 08/28/2012 (12CRW0051SE)

Name (Printed/Typed) JOE BRYAND

Title ENGINEER

Signature

(Electronic Submission)

Date 08/23/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 09/06/2012

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #147148 that would not fit on the form

32. Additional remarks, continued

When the test concludes MOC will retrieve the 7" retrievable bridge plug @ 6000' & produce both zones together. (SEE ATTACHED Final Schematic)

MOC has a Frac date scheduled for 9/10/12 for this operation.

Bond on file: NM1693, Nationwide

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

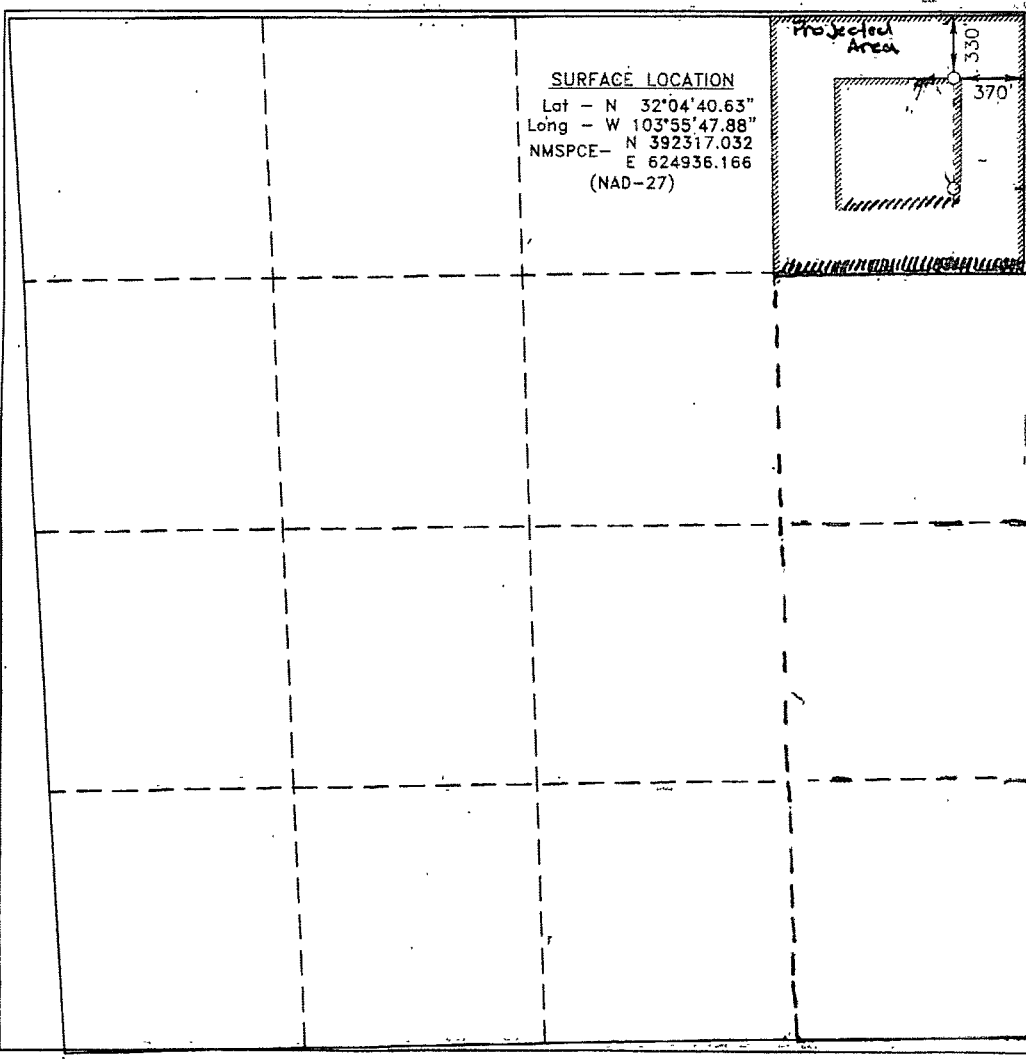
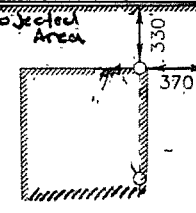
API Number 30-015-38673	Pool Code 8080	Pool Name Brushy Draw, Delaware
Property Code 38576	Property Name BRUSHY DRAW "1" FEDERAL	Well Number 1H
GRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3099'

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	26 S	29 E		330	NORTH	370	EAST	EDDY

Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40'	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>SURFACE LOCATION Lat - N 32°04'40.63" Long - W 103°55'47.88" NMSPCE - N 392317.032 E 624936.166 (NAD-27)</p>	<p>Projected Area</p> 	<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Joe Bryand</u> 8/28/12 Signature Date <u>Joe Bryand</u> Printed Name <u>bryand@newbourne.com</u> Email Address</p>
			<p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p><u>Gary L. Jones</u> 2010 Date Surveyed <u>Gary L. Jones</u> Signature Seal of Professional Surveyor 23891</p>
			<p>Certificate No. <u>Gary L. Jones</u> 7977</p>
			<p>Basin Surveys 23891</p>

Upper Brushy Canyon

UPPER BRUSHY CANYON PROCEDURE

Submitted By J. Bryand

Wellname: **Brushy Draw "1" Fed #1H**

Location: 330' FNL & 370' FEL, Sec 1, T26S, R29E,
Eddy Co. NM.

Date: 8/20/2012

Surface Csg	Size: 13 3/8" 48# H40 ST&C Csg.	Surface Csg	Set: 825'
Intermediate	Csg Size: 9 5/8" 36# J55 ST&C Csg	Intermediate	Csg Set: 3250'
Production Csg	Size: 7" 26# P110 BT&C Csg	Production	Csg Set: 8055'
Liner Size:	4 1/2" 11.6# P110 LTC Csg	Top Port:	7906'
Liner Top:	7614.20'	Hydraulic Port:	11905'
Ports:	19	New Perfs:	Upper Brush Canyon @ 6160'-6182'

Procedure:

- 1) File CLEZ 144, NOI to BLM.
- 2) MIRU WS rig & pump truck. Pump 10# brine down tbg to kill well. ND tree & NU 3K BOP.
- 3) Release O/O Tool. Let well equalize. Latch back on to O/O Tool.
- 4) Release pkr & Strap OOH w/tbg & LD GLV's & BHA.
- 5) RIH w/7" 10k CIBP & set @ 7164' (Top of BS & KOP). Load csg w/10# brine & test plug to 1000#. Spot 170' Class "H" cmt (yd 1.22 ft³/sk) on plug. Circulate hole w/2 % KCl water. POOH & LD tbg. ND BOP & NU MOC frac valve. RDMO WS rig.
- 6) MIRU WL truck. RIH w/GR, CCL & 3 1/4" Slickguns. **Perforate Upper Brushy Canyon @ 6160' - 6182'** (22', 2 SPF, 46 holes). Guns loaded w/.38" EHD, 120° phasing, 23 GC, & 36" penetration. RDMO WL truck.
- 7) MIRU BJ Services. **Frac Upper Brushy Canyon @ 6160' - 6182'** w/5000 gals Linear & 20000 gals X-linked carrying 45000# 20/40 white sand (25-30 BPM). Record ISDP, 5 min, 10 min, & 15 min pressures. Flowback well.
- 8) MIRU WS rig. RIH w/2 3/8" MJ w/BP, 2 3/8" L-80 Perf Sub, SN, 6 jts 2 3/8" 6.5# L-80 tbg, 2 3/8" x 7" TAC w/carbide slips & 30K shear, & 2 3/8" 6.5# L-80 tbg. Set TAC @ 6100' w/14 pts tension (EOT ≈ 6300'). NU wellhead.
- 9) RIH w/2 1/2" x 1 1/2" x 16' RHBC pump and D rod string (See Proposed Brushy Canyon Schematic). Seat and space pump 12" off bottom. Load tbg and test to 500#.
- 10) MI & set new Sentry 456-305-120 pumping unit w/42 HP Gas Engine. Hang well on and PWOL @ 8 SPM w/120" SL.
- 11) RDMO WS rig. Monitor production.

Class H
Neat

BELL CANYON PROCEDURE

Submitted By J. Bryant

Wellname: Brushy Draw "1" Fed #1H

Location: 330' FNL & 370' FEL, Sec 1, T26S, R29E,
Eddy Co. NM.

Date: 8/20/2012

Surface Csg	Surface Csg
Size: <u>13 3/8" 48# H40 ST&C Csg</u>	Set: <u>825'</u>
Intermediate	Intermediate
Csg Size: <u>9 5/8" 36# J55 ST&C Csg</u>	Csg Set: <u>3250'</u>
Production Csg	Production
Size: <u>7" 26# P110 BT&C Csg</u>	Csg Set: <u>8055'</u>
Liner Size: <u>4 1/2" 11.6# P110 LTC Csg</u>	Top Port: <u>7906'</u>
Liner Top: <u>7614.20'</u>	Hydraulic Port: <u>11905'</u>
Ports: <u>19</u>	New Perfs: <u>Bell Canyon @ 3448'-3458'</u>

Procedure:

- 1) Once production has stabilized. MIRU WS rig & HO truck. Unseat pump & HO rods & tbgs. POOH & LD rods. NU BOP. Release TAC & POOH w/tbgs.
- 2) RIH w/7" Retrievable BP & set @ 6000'. Load csg w/2% KCl water & test plug to 1000#. Dump 10' sand on plug. POOH & LD tbgs. ND BOP & NU MOC frac valve
- 3) MIRU WL truck. RIH w/3 1/4" Slickguns & **Perforate Bell Canyon @ 3448' - 3458'** (10', 2 SPF, 22 holes). Guns loaded w/.38" EHD, 120° phasing, 23 GC, & 36" penetration. RDMO WL.
- 4) MIRU BJ Services. **Frac Bell Canyon @ 3448' - 3458'** w/5000 gals Linear & 20000 gals X-linked carrying 45000# 20/40 white sand (25-30 BPM). Record ISDP, 5 min, 10 min, & 15 min pressures. Flowback well
- 5) RIH w/2 7/8" MJ w/BP, 2 7/8" L-80 Perf Sub (4'), SN, 6 jts 2 7/8" 6.5# L-80 tbgs, 2 7/8" x 7" TAC w/carbide slips & 30K shear, & 2 7/8" 6.5# L-80 tbgs. Set TAC @ 3400' w/14 pts tension (EOT @ 3600'). NU B1 adapter flange.
- 6) RIH w/2 1/2" x 1 1/2" x 16' RHBC pump and D rod string (See Proposed Bell Canyon Schematic). Seat and space pump 12" off bottom. Load tbgs and test to 500#.
- 7) PWOL and monitor production. RDMO WS rig.
- 8) Once production has stabilized, MIRU WS rig & HO truck. Unseat pump & HO rods & tbgs. POOH & LD rods. NU BOP. Release TAC & POOH w/tbgs. RIH & retrieve bridge plug.
- 9) RIH w/2 7/8" MJ w/BP, 2 7/8" L-80 Perf Sub (4'), SN, 92 jts 2 7/8" 6.5# L-80 tbgs, 2 7/8" x 7" TAC w/carbide slips & 30K shear, & 2 7/8" 6.5# L-80 tbgs. Set TAC @ 3400' w/14 pts tension (EOT @ 6350'). NU B1 adapter flange.
- 10) RIH w/2 1/2" x 1 1/2" x 16' RHBC pump w/8' GA and D rod string (See Final Schematic). Seat and space pump 12" off bottom. Load tbgs and test to 500#.
- 11) PWOL and monitor production. RDMO WS rig.

Mewbourne Oil Company

Well Name: Brushy Draw 1 Fed #1H (Current Schematic)
Updated by: J. Bryand

Spud Date: 5/27/2011

Date Updated: 6/21/2012

Surface

17 1/2" x 13 1/4" 48# H40
Set @ 825'
Circ 139 sks to pit

Intermediate

12 1/4" x 9 1/2" 36# J55 LT&C
Set @ 3250'
Circ 177 sks to pit

Production

8 1/2" x 7" 26# P110 LT&C Csg
Set @ 8055'
Did Not Circ cmt

Production

6 1/8" x 4 1/2" 11 6# P110
Set @ 11,905'

Brushy Draw 1 Fed #1H Tops:

Rustler	887'
Top of Salt	1163'
Base of Salt	3200'
Delaware	3392'
Bone Sprng	7164'

Date

07/22/11	Frac Bone Springs in 19 stages from 8115' to 11905' w/743500 gals 20# Linear gel carrying 309375# 100 Mesh sand & 1008000 gals 20# XL carrying 1368375# 20/40 sand Flowback for cleanup
09/11/11	Well making 100 % formation water RU coil tbg unit. Drill out ports to 9525' MD (7877' TVD) Run tracer survey to 9525' MD SWI Waiting on tracer analysis
09/26/11	RU pulling unit. RIH & set 10K 4 1/2" CIBP @ 8812' MD (7886' TVD) new PBTD
09/28/11	RIH w/2 7/8" L-80 & J-55 6 5# tbg to 7358'
09/29/11	Put Ports 16-19 (8115' MD, 7892' TVD - 8741' MD, 7886' TVD) on production

TBG Detail

1	2 1/4" Collar	44'
1	2 1/4" J-55 Perf Sub	3 97'
1	2 1/4" SN	1 10'
1	2 1/4" L-80 6 5# tbg	31 77'
1	2 1/4" x 7" 10k 1X pkr (Carbide)	7 63'
1	T2 O/O Tool w/2 313" X	1 58'
1	2 1/4" L-80 6 5# tbg	31 82'
1	2 1/4" J-55 GLV 1 Mandrel	4 09'
20	2 1/4" L-80 6 5# tbg	633 53'
1	2 1/4" J-55 GLV 2 Mandrel	4 11'
30	2 1/4" L-80 6 5# tbg	951 30'
1	2 1/4" J-55 GLV 3 Mandrel	4 09'
44	2 1/4" L-80 6 5# tbg	1394 28'
1	2 1/4" J-55 GLV 4 Mandrel	4 20'
60	2 1/4" L-80 6 5# tbg	1899 91'
1	2 1/4" J-55 GLV 5 Mandrel	4 11'
75	2 1/4" L-80 6 5# tbg	2379 61'
Total Tbg		7357 54'
KB Correction		19 00'
EOT @		7357 54'

4 1/2" x 7" Liner Hanger
Set @ 7614'

TVD @ 7835'
TD 6 1/4" hole @ 12191'

4 1/2" CIBP set @ 8812' MD (7886' TVD)

Mewbourne Oil Company

Well Name: Brushy Draw 1 Fed #1H (Proposed - Upper Brushy Canyon Schematic)

Updated by: J. Bryand

Spud Date: 5/27/2011

Date Updated: 6/21/2012

Surface

17 1/2" x 13 3/4" 48# H40
Set @ 825'
Circ 139 sks to pit

Intermediate

12 1/4" x 9 1/2" 36# J55 LT&C
Set @ 3250'
Circ 177 sks to pit

TOC of 7" @ 1180'

Upper Brushy Canyon

6160'-6182' (22' 2 SPF, 46 Holes)

7" CIBP set @ 7160' (Top of BS & KOP)

170' cmt on plug

Production

8 1/2" x 7" 26# P110 LT&C Csg
Set @ 8055'
Did Not Circ cmt

Production

6 1/8" x 4 1/2" 11 6# P110
Set @ 11,905'

Brushy Draw 1 Fed #1H Tops:

Rustler	887'
Top of Salt	1163'
Base of Salt	3200'
Delaware	3392'
Bone Spring	7164'

Date

07/22/11 Frac Bone Springs in 19 stages from 8115' to 11905' w/743500 gals 20# Linear gel carrying 309375# 100 Mesh sand & 1008000 gals 20# XL carrying 1368375# 20/40 sand Flowback for cleanup

08/11/11 Well making 100 % formation water RU coil tbg unit. Drill out ports to 9525' MD (7877' TVD) Run tracer survey to 9525' MD SWI Waiting on tracer analysis

09/26/11 RU pulling unit. RIH & set 10K 4 1/2" CIBP @ 8812' MD (7886' TVD) new PBTD

09/28/11 RIH w/2 7/8" L-80 & J-55 6 5# tbg to 7358'

09/29/11 Put Ports 16-19 (8115' MD, 7892' TVD - 8741' MD, 7888' TVD) on production

Proposed Schedule

MIRU WS rig & POOH w/tbg & LD GLV's & BHA RIH w/7" CIBP Set @ 7160' (Top of BS & KOP) Spot 170' cmt on plug

Perforate & Frac Brushy Canyon Perforations @ 6160'-6182' (22' 2 SPF 46 holes)

RIH w/tbg & rods as followed

Proposed TBG Detail:

1	2 1/4" L-80 MJ w/BP	32 00'
1	2 1/4" L-80 Perf Sub	4 00'
1	2 1/4" SN	1 10'
6	2 1/4" L-80 6 5# tbg	190 20'
1	2 1/4" x 7" TAC w/carbide slips (30K shear)	2 50'
193	2 1/4" L-80 6 5# tbg	6118 10'
Total Tbg		6347 90'
KB Correction		19 00'
EOT @		6366 90'

Proposed Rod Detail:

1	2 1/4" x 1 1/2" x 16' RHBC Pump w/8' GA	16 00'
1	7/8" Guided Pony Rod	1 00'
22	1" Grade D Rods	550 00'
138	3/4" Grade D Rods	3450 00'
90	7/8" Grade D Rods	2250 00'
1	7/8" Pony Rod (4')	4 00'
1	1 1/2" x 22' PR w/ 1 1/4" x 12' PRL	22 00'
Total Rods		6293 00'

4 1/2" x 7" Liner Hanger
Set @ 7614'

TVD @ 7835'
TD 6 1/2" hole @ 12191'

4 1/2" CIBP set @ 8812' MD (7886' TVD)

Mewbourne Oil Company

Well Name: Brushy Draw 1 Fed #1H (Proposed - Final Schematic)
Updated by: J. Bryand

Spud Date: 5/27/2011

Date Updated: 6/21/2012

Surface

17 1/2" x 13 3/4" 48# H40
Set @ 825'
Circ 139 sks to pit

Intermediate

12 1/4" x 9 1/4" 38# J55 LT&C
Set @ 3250'
Circ 177 sks to pit

TOC of 7" @ 1180'

Bell Canyon

3448' - 3458' (10' 2 SPF, 22 Holes)

Upper Brushy Canyon

6160' - 6182' (22' 2 SPF, 46 Holes)

7" CIBP set @ 7160' (Top of BS & KOP)

170' cmt on plug

Production

8 1/8" x 7" 26# P110 LT&C Csg
Set @ 8055'
Did Not Circ cmt

Production

6 1/8" x 4 1/2" 11 6# P110
Set @ 11,905'

Date

07/22/11 Frac Bone Springs in 19 stages from 8115' to 11905' w/743500 gals 20# Linear gel carrying 309375# 100 Mesh sand & 1008000 gals 20# XL carrying 1368375# 20/40 sand Flowback for cleanup
09/11/11 Well making 100 % formation water RU coil tbg unit. Drill out ports to 9525' MD (7877' TVD) Run tracer survey to 9525' MD SWI Waiting on tracer analysis
09/26/11 RU pulling unit. RIH & set 10K 4 1/2" CIBP @ 8812' MD (7886' TVD) new PSTD
09/28/11 RIH w/2 7/8" L-80 & J-55 6 5# tbg to 7358'
09/29/11 Put Ports 16-19 (8115' MD, 7892' TVD - 8741' MD, 7886' TVD) on production

Proposed Schedule

MIRU WS ng & POOH w/tbg & rods RIH & retrieve 7" Retrievable Bndge plug
RIH w/tbg & rods as followed

Proposed TBG Detail:

1	2 1/4" L-80 MJ w/BP	32 00'
1	2 1/4" L-80 Perf Sub	4 00'
1	2 1/4" SN	1 10'
92	2 1/4" L-80 6 5# tbg	2916 40'
1	2 1/4" x 7" TAC w/carbide slips (30K shear)	2 50'
107	2 1/4" L-80 6 5# tbg	3391 90'
	Total Tbg	6347 90'
	KB Correction	19 00'
	EOT @	6366 90'

Proposed Rod Detail

1	2 1/2" x 1 1/2" x 16' RHBC Pump w/8' GA	16 00'
1	3/4" Guided Pony Rod	1 00'
22	1" Grade D Rods	550 00'
138	3/4" Grade D Rods	3450 00'
90	3/4" Grade D Rods	2250 00'
1	3/4" Pony Rod (4')	4 00'
1	1 1/2" x 22' PR w/ 1 1/2" x 12' PRL	22 00'
	Total Rods	6293 00'

4 1/2" x 7" Liner Hanger
Set @ 7614'

TVD @ 7835'
TD 6 1/4" hole @ 12191'

4 1/2" CIBP set @ 8812' MD (7886' TVD)

Brushy Draw 1 Fed #1H Tops:

Rustler 887'
Top of Salt 1163'
Base of Salt 3200'
Delaware 3392'
Bone Sprng 7164'

Brushy Draw 1 Fed 1H
30-015-38673
Mewbourne Oil Company
Conditions of Approval

1. **Set CIBP at approximately 7214' (50 feet below the top of Bone Spring formation) and spot 170' minimum of class H neat cement on top.**
2. Surface disturbance beyond the originally approved pad must have prior approval.
3. Closed loop system required.
4. 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram.
5. Completion report and subsequent sundry with well test required.

CRW 090612